

# THEORETICAL BURSTING PRESSURES

## STAINLESS STEEL METRIC TUBING

O.D. MM	O.D. IN	WALL MM	WALL IN	I.D. IN	BP
3	0.118	0.5	0.020	0.079	25,000
4	0.157	0.5	0.020	0.118	18,750
4	0.157	1	0.039	0.079	37,500
6	0.236	1	0.039	0.157	25,000
6	0.236	1.5	0.059	0.118	37,500
8	0.315	1	0.039	0.236	18,750
8	0.315	1.5	0.059	0.197	28,125
10	0.394	1	0.039	0.315	15,000
10	0.394	1.5	0.059	0.276	22,500
10	0.394	2	0.079	0.236	30,000
12	0.472	1	0.039	0.394	12,500
12	0.472	1.5	0.059	0.354	18,750
12	0.472	2	0.079	0.315	25,000
14	0.551	1.5	0.059	0.433	16,071
15	0.591	1.5	0.059	0.472	15,000
15	0.591	2	0.079	0.433	20,000
16	0.630	1	0.039	0.551	9,375
16	0.630	1.25	0.049	0.531	11,719
16	0.630	2	0.079	0.472	18,750
18	0.709	1.5	0.059	0.591	12,500
18	0.709	2	0.079	0.551	16,667
20	0.787	1.5	0.059	0.669	11,250
20	0.787	2	0.079	0.630	15,000
20	0.787	2.5	0.098	0.591	18,750
20	0.787	3	0.118	0.551	22,500
22	0.866	1.5	0.059	0.748	10,227
22	0.866	2	0.079	0.709	13,636
22	0.866	2.5	0.098	0.669	17,045

O.D. MM	O.D. IN	WALL MM	WALL IN	I.D. IN	BP
25	0.984	1.5	0.059	0.866	9,000
25	0.984	2	0.079	0.827	12,000
25	0.984	2.5	0.098	0.787	15,000
25	0.984	3	0.118	0.748	18,000
28	1.102	2	0.079	0.945	10,714
28	1.102	2.5	0.098	0.906	13,393
30	1.181	2.5	0.098	0.984	12,500
30	1.181	3	0.118	0.945	15,000
30	1.181	4	0.157	0.866	20,000
35	1.378	2.5	0.098	1.181	10,714
38	1.496	4	0.157	1.181	15,789
40	1.575	2.5	0.098	1.378	9,375
42	1.654	3	0.118	1.417	10,714

T304/L, T316/L and T317L A269 tubing for temperatures between -20F and 100F.

The ASME code suggests a safety factor of four when determining working pressure.

E.g. 6mm OD x 1mm wall BP = 25,000 PSI  
 25,000 PSI / 4 = 6,250 PSI  
 Working Pressure = 6,250 PSI

For higher temperatures multiply working pressures by:

	300°F	500°F	1000°F
T304/L	.828	.744	.665
T316/L & T317/L	.900	.853	.764

All pressure ratings are approximate and for illustration purposes only.  
 Values are not guaranteed or warranted.